

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-20. (canceled)

21. (currently amended) An NRD guide transition, comprising:

two parallel conductors;

a dielectric waveguide ~~which is~~ sandwiched between the two parallel conductors, and has a gap which is a first of the two parallel conductors being at a top of the dielectric waveguide, and a second of the two parallel conductors being at a bottom of the dielectric waveguide, and a height of the dielectric waveguide separating the two parallel conductors being less than a 1/2 wavelength of a wave to be propagated through the dielectric waveguide;

a conductor rod ~~which is adjacently arranged in adjacent to and~~ substantially parallel with the dielectric waveguide between the two conductors;

a microstrip line having a dielectric material, the microstrip line being on a side surface of the conductor rod opposite to the dielectric waveguide, the microstrip line

determined as a ground conductor with respect to the conductor rod; and

a coaxial line, extending perpendicularly to a longitudinal direction of the conductor rod and parallel to the two parallel conductors, the coaxial line piercing ~~which pierces~~ the conductor rod and ~~[[a]]~~ the dielectric substrate material of the microstrip line ~~in a direction perpendicular to a longitudinal direction of the conductor rod and in parallel with the parallel conductors~~, and such that the coaxial line connects the dielectric waveguide with the microstrip line.

22-24. (canceled)

25. (withdrawn/currently amended) The NRD guide transition according to claim 21, wherein,

a lateral width of a contact surface of each of the conductor rod, ~~the first conductor rod and the second conductor rod~~ with respect to each of the parallel conductor plates is a $3/4$ wavelength, and

a groove having a width of a $1/4$ wavelength is provided at a central part of the contact surface in a longitudinal direction to form a choke structure.

26. (withdrawn/currently amended) The NRD guide transition according to claim 21, wherein a liquid dielectric

material is filled in i) an air gap formed between contact surfaces of ~~[[a]]~~ the dielectric substrate material of the microstrip line and a cylindrical dielectric material constituting the coaxial line and ii) an air gap formed between the contact surfaces of the dielectric ~~substrate~~ material of the microstrip line and the conductor rod.

27. (withdrawn/currently amended) The NRD guide transition according to claim 26, wherein the liquid dielectric material ~~is a liquid dielectric material having~~ has dry curing properties.

28. (withdrawn/currently amended) The NRD guide transition according to claim 27, wherein the liquid dielectric material ~~having dry curing properties~~ is enamel.

29-39. (canceled)

40. (new) The NRD guide transition according to claim 21, wherein,

the conductor rod comprises a first longitudinal portion, a second longitudinal portion, and a connecting longitudinal portion, the portions of the connector rod forming a H-shaped cross-section, top surfaces of each of the first and second longitudinal portions in contact with the first of the two

parallel conductors, bottom surfaces of each of the first and second longitudinal portions in contact with the second of the two parallel conductors, and the connecting longitudinal portion defining a groove between the first and second portions along the longitudinal direction of the conductor rod, the groove having a width of a $1/4$ wavelength of the wave to form a choke structure,

a combined width of the first, second, and connecting portions of the conductor rod being a $3/4$ wavelength of the wave.